

CCTCCTGACCTGGCTTAAGCAAGAGCTGGCTTACCTACAGATATGGCACCCATA  
 CCTACAGGCCCATGCAAGAGAAGGGCCCTTGTTTCAGGCACAGGGAGGGCTGGGAGAG  
 ATTCCTGAGATCTCAAGGAAGGAGGGCAGCGAGGAACTGGGACTGAGGACCCATT  
 CTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 TAACACTAGAAACCATGGCCAGTGAAAGAACAAATACTGGCCGGAGGAACTGGGCTGG  
 CACAGCTATCATTTACGGCTTGACTTCTGACTTCTGACTTCTGACTTCTGACTTCTG  
 ACCATGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 CCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 TAATGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 ATTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 GAACCTCTCAGAICCTCCCTGGGGCCACACTGGCATGGCTGGCTGGCTGGCTGGCTGG  
 TCAAGGCTCCAGCTTAICCTGCTCATGCAATCAACGGCTTCCACGATCAAGGCTGG  
 CACACACTTCAGATATCAACACGTTATGGTGCACAGATCATCAAGGCTGGCTGGCTGG  
 TICCGCTCTAACCATGACGGAGGATCTCCCTCTAACGGGAGCTGGCTGGCTGGCTGG  
 CACTCAACACTACCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT  
 CGCAGCTCAGGAGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 CTGCTCTCAGGAGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 AAACGCTGATGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 GAGCTGAGGACTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 CCAGGAGGATACACTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
 GAGCTGAGGAAATGGCTGAACAGT (SEQ ID NO:1)

MTAMILETMASEEYGPRNCVVCIDRATGYIHFALTCEGCKGF  
 FRRIVSKTKIGPICPFAGRCEVSKAQRRHICPAQRLQKCLNVGMRKDM  
 ILSAEIALARRARQAQRAEKASLQLNQQQKELVQILLGAHTRHVG  
 PLFDQFVQFKPPAYLFLMHRPFPQRGPVPLPLTHFADINTFMVQQIK  
 FTKDPLERSLTMEDQISLIKGAAVEILHISLNNTFCLQIENFTCGPLC  
 YKMEDAVHAGFQYEELLESILHKNLKGHLQEPEYVLMAAATA  
 LFSPGICCMQS (SEQ ID NO:2)

**FIG. 1**

# Construct

GI Number(s): 2267577

**Gene Family:** Nuclear Hormone Receptor

**Gene Subfamily:** Orphan NHR

**Gene Sequence:** full-length cDNA. Mouse

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

CCCTCGACCTGAGATCCATTGTGCTAAAGCAGAGTCTGGGCCTCACCATATGGC  
ACCGAGGATACCTAGAGGCCCATGCAAGAGAAGGGCCTGTTTCCAGGCCTGAGGAC  
CGCAGTCCTAATTCTGGCAGTTCTGAGATCTCAAGGAAAGCAGGGTCAGCGAGGAGG  
CCTGGGGAGAGGGAGGCATCCTACACCCAACTCTTGTCGGCCTGCTGCCTAACGGAAACAGGA  
GACCATGACAGCTATGCTAACACTACAGAACCTCCCCAGTGAGAACATATGGGGCGAG  
GAACATGTTGTGGTGTGGAGAGCGGGCCTACAGGCTATCATTTCCACAUCCCTGACITGGA  
GGGTTGAAAGGGGTTCTCACAGGAAACAGTCAAGAACCCATGGTCCATATGTGTCCTT  
TCTGAAAGGTGTGAGGTCAGTACGGGCTAGAGAGCGCCACTGTCCAGCUTGCAGGGTTCGA  
GAAGATGCTAAATGTTGGCATGAGAAAAGACATGATACTGTCAAGCAGAACGCCCTGGCATT  
GCGCGAGCCAGACAGGCACAGCGGGCAGAGAAAAGCATTTCGCAACTGAATCAGCA  
GCAGAAAGAACTGGTCAGATCTCTGGGGGCCACACTCGCATGTGGGCCATTGTT  
TGACCACTTTCTGCAAGTTCAGGCTCAGCCTATCTGTTCATGCACTAACGGCCCTTCCA  
GCCTCGGGGCCCGCTTGGCTTCTGCAACACACTTGCAGATATCAACGTTTATGGT  
GCAACAGATCATCAAAGTTCACCAAGGGATCTGCCGCTCTTCCGGTCCCTAACCATGGAGGA  
CCAGATCTCCCTTCTCAAGGGAGCGGGCTGTGGAAATATTGCAATATCTCACTAACACTAC  
GTTCTGTCTTCAGAACAGAGAAATTCTCTGTCGGGCTCTTGCTACAAGATGGAGGAAGC  
AGTCATGCCAGGGTCTCAGTAGAGTTTGGAGTCGATCTCCACTTCATAAAAACCT  
GAAAGGACTGCATCTCCAGGAGCTGAGATGTGCTCATGGCTGCCACGCCCTCTCTC  
CCCTGGTTCTGTATGCAAAAGCTGATGGGCCTGCTGGCTGACCTCCGGAGTATAAACAAAT  
CCATACTCCATGAACTTCAGGGCTTGGAGGAACGTGCTGCTATGACGCCGCTGTCGGG  
GAGATTGCAAGTTGAGGGCCAGGCTTGCATCCTTCCCCAGACCCCCAGGGATAACACTGG  
CCTGGAAAGGGTACAGCGCTGGACCCCACACAGCAGAACGGAGCTGGGAGTGGCAATGAA  
ATGCTGAACAGT

## Gene Sequence Structure \*

282 bp

## Sequence Deleted

403 bp

Size of full-length  
cDNA: 1332 bp

FIG. 2A

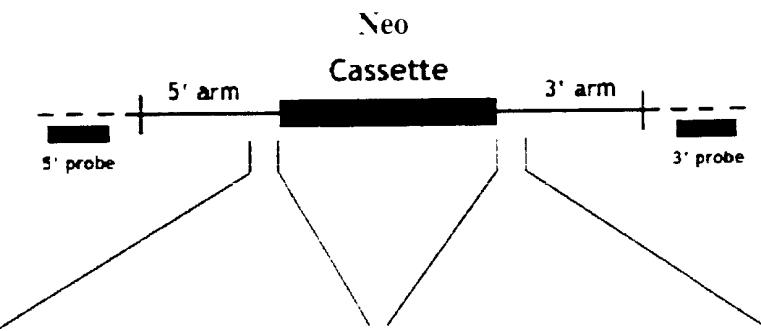
## Targeting Vector\* (genomic sequence)

Construct Number: 138

### Arm Length:

5': 3.5 kb

3': 1.9 kb



— Targeting Vector  
- - - Endogenous Locus

\* Not drawn to scale

5' > TTGGAGGCCAGAGACAAAAAG  
CAACATTTTGCTTTAATGTCCT  
CAGTGCCTGGGAGCGCGGTGTAG  
GCTGGGCAGTCTTGGGAAGAGATT  
CTGTAGAGGGAGAGAGAGAGTC  
CTATGGCCAGTGTGATTCTCAA  
CTCTCCACATTCAGGAGACCAT  
GAGAGCTATGCTAACAA:TAGAAC  
CATGGCCAGTG<3'  
(SEG ION No. 3)

5' > GGTCCCACATCTGTCCGTTGCT  
GGAAGGGTGTGAGGTCAAGGCC  
CAAGAGACGCCACTGTCCAGGCTGCG  
AGGTTGCAAGAGTGTCTAAATGTT  
GGCATGAGGAAAGACACTGAGTG  
GTCCCTAACGTTGAGGAGTCAAT  
TGAGTGTCTCTGCTTGTGTTGAG  
GTTCCCACAGCAGGCAGAGTGAGC  
TGTTGGAAACC<3'  
(SEG ED No. 4)

FIG. 2B

### necropsy - spleen weight/body weight

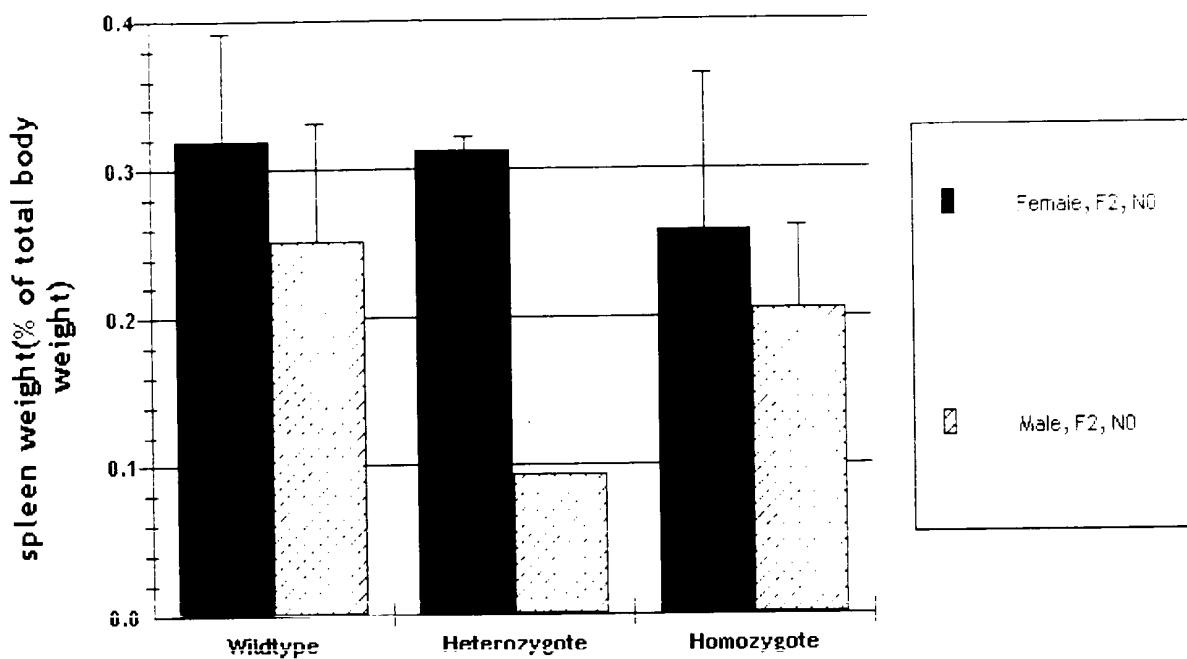


FIG. 3

### necropsy - thymus weight/body weight

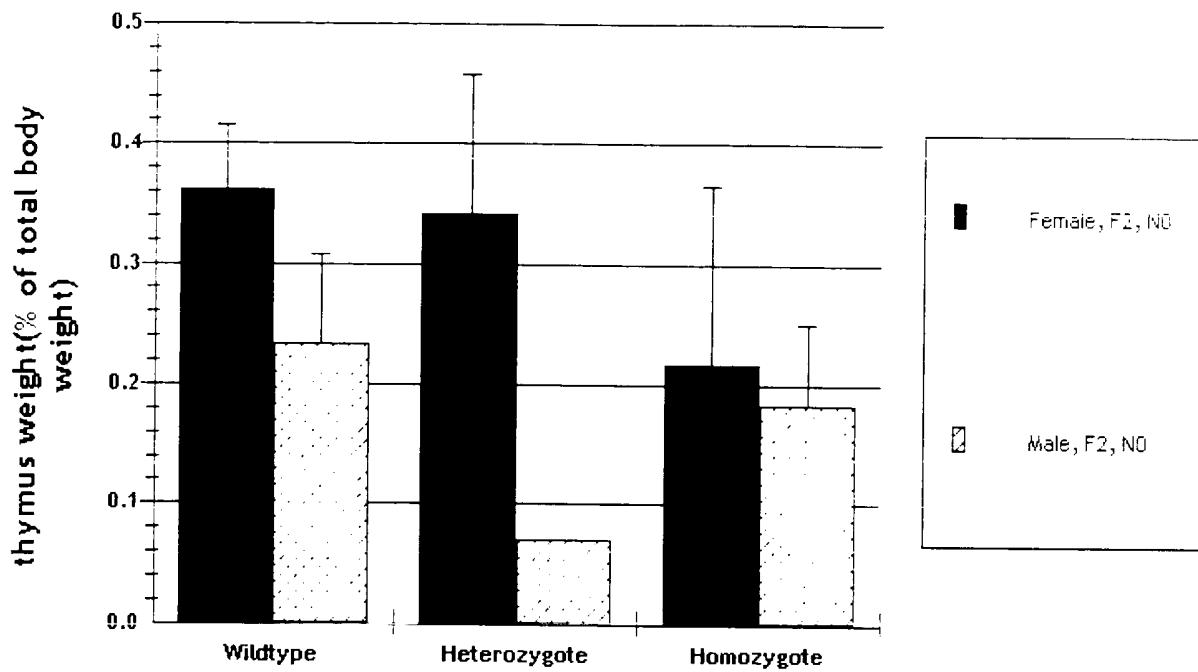


FIG. 4